

Recombinant Human GDNFR-alpha-2/GFRA2 Protein

Catalog No.: RP00199 **Recombinant**

Sequence Information

Species Human **Gene ID** 2675 **Swiss Prot** O00451

Tags

C-His

Synonyms

GFRA2;GDNFRB;NRTNR-ALPHA;NTNRA;RETL2;TRNR2

Background

Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. The protein encoded by this gene is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This encoded protein acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1. This gene is a candidate gene for RET-associated diseases.

Basic Information

Description

Recombinant Human GDNFR-alpha-2/GFRA2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ser22-Ser441) of human GFRA2/GFR α 2/GDNFRB (Accession #NP_001486.4) fused with a 6 \times His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human Neurturin at 5 μ g/mL (100 μ L/well) can bind recombinant Human GFRA2, the EC₅₀ of Human GFRA2 is 1.82 μ g/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Product Information

Source

HEK293 cells

Purification

\geq 95 % as determined by SDS-PAGE.

Calculated MW

47.59 kDa

Observed MW

70-75 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

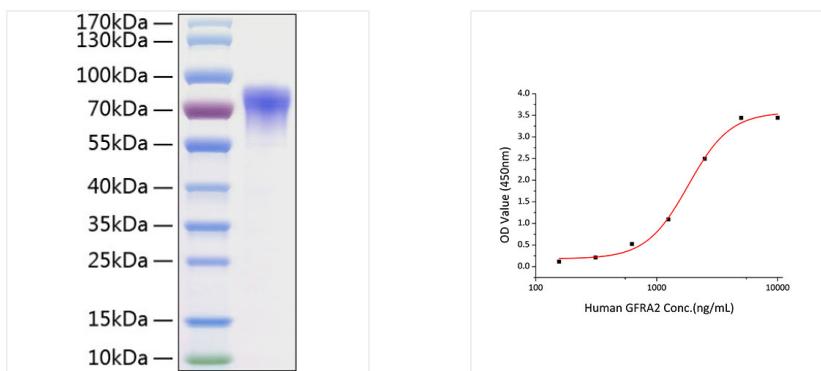
Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Validation Data



Recombinant Human GDNFR-alpha-2/GFRA2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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